

Facility Name: American Cyanomical Warners Plant Location: Linder Union Couly
Location: Finder Union Courty
EPA Region:
Person(s) in Charge of the Facility:
Name of Reviewer: C. Sullevan Date: 7/12/58
General Description of the Facility:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
Drusting wanufacturer of jest ades
water reatment chemical and mining products.
Extensive history of apills to ground, Die, and surface water, 186 Search
Die and senface water, 186 Send
warrant and moust gation indicated at least
37 regliget descharges to Outhur Kill and
Ralway River, Nunerous Orders ussued
Scores: SM = 9.00 (Sgw = 4.90 Sgw = 14.77Sa = 0)
Spe =
S _{DC} -

GROUND WATER ROUTE WORK SHEET								
	Rating Factor		Aulti- plier	Score	Max. Score	Ref. (Section)		
Image: section of the content of the	Observed Release	(6) 45	1	0	45	3.1		
		is given a score of 45, proceed to line 4. is given a score of 0, proceed to line 2.	·	·		• : .		
_	Route Characteristic Depth to Aquifer of	<u> </u>	2	6	6	3.2		
	Concern Net Precipitation Permeability of the Unsaturated Zone	0 1 2 3 0 1 2 3	1	2	3 3			
	Physical State	0 1 2 3	1	3 .	3			
		Total Route Characteristics Score		ι3	15			
3	Containment -	0 1 2 3	1	3	3	3.3		
	Waste Characteristic Toxicity/Persistence Hazardous Waste Quantity	0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8	1	18	18	3.4		
	_							
		Total Waste Characteristics Score	-	24	26			
	Targets Ground Water Use Distance to Nearest Well/Population Served	0 ① 2 3	3 1	3	9 40	3.5		
					* 1 1 ** 1			
		Total Targets Score		3. ′	49			
		iultiply 1 x 4 x 5 iltiply 2 x 3 x 4 x 5		28 <i>0</i> 8	57.330			
7	Divide line 6 by	57,330 and multiply by 100 Sgw = 4,9	0					

SURFACE WATER ROUTE WORK SHEET									
	Rating Factor	·	Assigned Value (Circle One)			Multi- plier	Score	Max. Score	Ref. (Section)
曰	Observed Release		<u>o</u>	45		1	0	45	4.1
	If observed release if observed release	-							
2	Route Characteristic Facility Slope and In Terrain		<u> </u>	2 3		1	Ö	3	4.2
	1-yr. 24-hr. Rainfail Distance to Nearest Water	Surface	- 0 10	2 3 2 3	`	1 2	26	3	
	Physical State		0 1	2 (3		1	3	3	
		Tota	al Route (Characterist	cs Score		11	15	
3	Containment		0 1	2 3		1	3	3	4.3
<u>a</u>	Waste Characteristic Toxicity/Persistence Hazardous Waste Quantity		0 3	6 9 12 15 2 3 4 5	s (8) s (6) 7 8	1	18	18	4.4
-		Tota	al Waste	Characterist	ics Score		24	28	
3	Targets Surface Water Use Distance to a Sensit Environment Population Served/D		0 1 0 1	2 3 2 3.		3 2 1	690	9 6 40	4.5
	to Water Intake Downstream		j 24 30	18 20 32 35 40			· ·	· ·	
, (夏)	16 line [1] in 48 -	unition [4]		Targets Sco	re .		12	55	· · · · · · · · · · · · · · · · · · ·
<u>8</u>		ultiply 1					9504	64,350	
Divide line 6 by 64.350 and multiply by 100 S _{sw} = 14.77									

AIR ROUTE WORK SHEET										
	Rating Factor Assigned Value Multi- (Circle One) Piler						Score	Max. Score	Ref. (Section)	
1	Observed Release		•		45		1		45	5.1
	Date and Location					-				
	Sampling Protocol									·
		ne S = 0. Er then procee	_					•		
2	Waste Characterist Reactivity and	tics	0 1	2 3			1		3	5.2
	Incompatibility Toxicity Hazardous Waste Quantity		0 1 0 1	2 3 2 3	4 5 6	7 8	3 1		9. 8	
						÷				
	·	То	tal Waste (Characte	eristics :	Score			20	
3	Targets Population Within 4-Mile Radius Distance to Sensit	ive) 0 9 21 24 0 1	12 15 1 27 30 2 3	8		1 2		30 6	5.3
	Environment Land Use		0 1	2 3			1		3	
			Total '	Targets	Score				. 39	
4	Multiply 1 x 2	x 3							35,100	
3	5 Divide line 4 by 35,100 and multiply by 100 Sa =									

	<u></u>	•
	S	s²
Groundwater Route Score (Sgw)	4.90	24.61
Surface Water Route Score (S _{SW})	14.77	218,15
Air Route Score (Sa)	0	O
$s_{gw}^2 + s_{sw}^2 + s_a^2$		242.16
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		15.56
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73$		s _M - '9,00

WORKSHEET FOR COMPUTING SM

			J'				
250000	D LHONE CUTT DO TERM	H DIELDIAN DES	FERENCE				
RECORD OF COMMUNICATION	BOTHER WEGIFTS Hazardou	ıs Waste Site Insp. Re	eport				
	(Record of hom therital show)						
70 :	FROM:	DATE 3/31/81					
Dr. Richard Spear	James E. Shirk	10:00 am					
SUSJECT							

American Cyanamid Company, Linden, New Jersey

The twenty five (25) acre landfill is no longer being used for disposal of chemical waste products by American Cyanamid. Cyanuric chloride, calcium cyanide, empty pesticide containers and vanadium pentoxide were landfilled here.

The site has been encapsulated and the cap over the site is compacted, graded, and vegetated. The company maintains the site regularly and itais fenced securely.

There are no public water supplies located near the site. Any potential leachate would enter the Arthur Kill, a source of nonpotable water.

CONCLUSIONS ACTION TAKEN OR REQUIRED

This site does not appear to pose a significant health hazard. Groundwater is not used for drinking purposes in this area, and the company's disposal practices appeared sound.

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